

**Product:** [1672J](#) 

75 Ohm High-Frequency Conformable Coax, #29 SCCCS Coax, Unjacketed



## Product Description

29 AWG solid .011" silver-coated copper-covered steel conductor, TFE Teflon® insulation, copper-tin composite shield (100% coverage), PVC jacket.

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

| AWG | Stranding | Material                             | Nominal Diameter | No. of Coax |
|-----|-----------|--------------------------------------|------------------|-------------|
| 29  | Solid     | SCCS - Silvered Copper Covered Steel | 0.0114 in        | 1           |

|                  |   |
|------------------|---|
| Conductor Count: | 1 |
|------------------|---|

#### Insulation

| Material                       | Material Trade Name | Nominal Diameter |
|--------------------------------|---------------------|------------------|
| PTFE - Polytetrafluoroethylene | Teflon®             | 0.062 in         |

#### Outer Shield

| Type  | Layer | Material                        | Coverage [%] |
|-------|-------|---------------------------------|--------------|
| Tape  | 1     | Bare Copper (BC)                | 100%         |
| Braid | 2     | Tinned Copper (TC + Tin Filled) | 100%         |

#### Outer Jacket

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.127 in         |

### Electrical Characteristics

#### Conductor DCR

| Nominal Conductor DCR | Nominal Conductor DCR | Conductor Resistance | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|-----------------------|----------------------|--------------------------|---------------------|
| 205 Ohm/1000ft        | 205 Ohm/1000ft        |                      | 10 Ohm/1000ft            | 10 Ohm/1000ft       |

#### Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 19.5 pF/ft                           |

#### Inductance

| Nominal Inductance |
|--------------------|
| 0.109 µH/ft        |

#### Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 75 Ohm                           |

#### Return Loss

| Frequency [MHz] | Min. Structural Return Loss (SRL) |
|-----------------|-----------------------------------|
| 10-1000 MHz     | 25 dB                             |

#### High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz           | 1.6 dB/100ft        |
| 10 MHz          | 1.8 dB/100ft        |
| 50 MHz          | 4.1 dB/100ft        |
| 100 MHz         | 6.5 dB/100ft        |
| 200 MHz         | 9 dB/100ft          |
| 400 MHz         | 12.8 dB/100ft       |
| 700 MHz         | 18 dB/100ft         |
| 1000 MHz        | 22.1 dB/100ft       |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|------------------------------------------|
| 1.46 ns/ft    | 70%                                      |

Power Rating

| Frequency [MHz] | Max. Power Rating [W] | Nominal Power Rating [W] |
|-----------------|-----------------------|--------------------------|
| 1 MHz           | 520 W                 | 520 W                    |
| 10 MHz          | 295 W                 | 295 W                    |
| 50 MHz          | 195 W                 | 195 W                    |
| 100 MHz         | 160 W                 | 160 W                    |
| 200 MHz         | 140 W                 | 140 W                    |
| 400 MHz         | 130 W                 | 130 W                    |
| 700 MHz         | 127 W                 | 127 W                    |
| 1,000 MHz       | 125 W                 | 125 W                    |

Voltage

| Non-UL Voltage Rating | UL Voltage Rating |
|-----------------------|-------------------|
| 900 V RMS             | 30 V RMS          |

Temperature Range

|                              |                 |
|------------------------------|-----------------|
| Non-UL Temp Rating:          | 105°C           |
| UL Temperature Rating:       | 105°C           |
| Operating Temperature Range: | -40°C To +105°C |

Mechanical Characteristics

|                                          |               |
|------------------------------------------|---------------|
| Bulk Cable Weight:                       | 16 lbs/1000ft |
| Maximum Recommended Pulling Tension:     | 20 lbs        |
| Min Bend Radius (Overall):               | 1 in          |
| Minimum Bend Radius During Installation: | 0.125 in      |
| Min Flexing Radius:                      | 0.375 in      |

Standards

|                          |           |
|--------------------------|-----------|
| UL AWM Style Compliance: | AWM 10245 |
| RG Type:                 | 405       |

Applicable Environmental and Other Programs

|                                              |                               |
|----------------------------------------------|-------------------------------|
| Environmental Space:                         | Indoor/Outdoor                |
| EU Directive 2000/53/EC (ELV):               | Yes                           |
| EU Directive 2003/11/EC (BFR):               | Yes                           |
| EU Directive 2011/65/EU (RoHS 2):            | Yes                           |
| EU Directive 2012/19/EU (WEEE):              | Yes                           |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes                           |
| EU Directive Compliance:                     | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                                  | No                            |
| MII Order #39 (China RoHS):                  | Yes                           |

Suitability

|                        |     |
|------------------------|-----|
| Suitability - Indoor:  | Yes |
| Suitability - Outdoor: | Yes |

Flammability, LS0H, Toxicity Testing

|                    |                 |
|--------------------|-----------------|
| UL Flammability:   | Horizontal Wire |
| UL voltage rating: | 30 V RMS        |

Plenum/Non-Plenum

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Related Part Numbers

Variants

| Item #        | Color              | Put-Up Type | Length   | UPC          |
|---------------|--------------------|-------------|----------|--------------|
| 1672J 010500  | Black              | Reel        | 500 ft   | 612825319184 |
| 1672J 0101000 | Black              | Reel        | 1,000 ft | 612825120360 |
| 1672J 368500  | Clear, Transparent | Reel        | 500 ft   | 612825120377 |

|           |                                                                                                                                                                                                                                                                                                              |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Footnote: | V - 250' PUT-UP EXACT LENGTH MAXIMUM OF 3 PIECES, MINIMUM LENGTH 50'. 500' PUT-UP EXACT LENGTH MAXIMUM OF 5 PIECES, MINIMUM LENGTH 50'. 1000' PUT-UP EXACT LENGTH MAXIMUM OF 8 PIECES, MINIMUM LENGTH 50'. E - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'. C - CRATE REEL PUT-UP. |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Product Notes

|        |                                                                                                         |
|--------|---------------------------------------------------------------------------------------------------------|
| Notes: | Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc. |
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History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.399 Revision Date: 02-20-2026 |
|----------------------|--------------------------------------------------|

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